REV.	ZONE	DESCRIPTION	DATE	APPROVED
M		R6,22 WERE 5.1K/ECN 849 J1-15 GROUNDED ECN 842	6-25-91	E. Dunn
L		REVISED PER ECN Nº M4650	1-7-92	[illegible]
K		REVISED PER ECN Nº 513C	7-8-86	J. PONIST
J		REVISED PER ECN Nº M2780	3-17-86	JP
I		REVISED PER ECN Nº M1740	11-5-85	J. PONIST
H		REVISED PER ECN Nº M1480T	6-3-85	JP
G		REVISED PER ECN Nº M0730	3-4-85	JP
F		REVISED PER ECN Nº M0640	1-16-85	JP
E		REVISED PER ECN Nº 712	6-9-84	JWP
D		REVISED PER ECN Nº 688	5-10-84	JWP
C		REVISED PER ECN Nº 637	2-20-84	HGF
B		RELEASED PER EPR Nº 014	12-9-84	RAH
A		PRELIMINARY RELEASE	10-14-83	RAH

NOTES:

1- Unless Otherwise Indicated, Resistance is in Ohms, 1/4 Watt Dissipation Rating, Fractional Values of Capacitance in Microfarads, All Others in Picofarads.

NO CONNECTION — CONNECTION

NEXT ASSY	USED ON
C38,130	
FIRST APPLICATION	

DRAWN NAL DATE 10-14-83
ENG APPVL RAH DATE 10-14-83
REL TO PROD DATE
REF. TO EPL

RF Plasma Products, Inc.

TITLE SCHEMATIC DIAGRAM MATCHING NETWORK CONTROLLER

DWG. NO. 40,247 SHT 1 OF 1 SCALE NONE SIZE D

PT-D2

✻NOTE:
FOR JAPANESE PRODUCTS MOTORS BLACK=+ RED=–
P6
AMPS-2A
SHIELD
WHITE
BLACK
RED
P1 J1
PHASE ERROR
MAGNITUDE ERROR
MAG ZERO
PHASE ZERO
COVER INTERLOCK SWITCH
A1S1
NO
A2C1 .001
A2C2 .001
A2C3 .001
A2C4 .001
A2C5 .001
A2C6 .001
A2C9 .001
A2C10 .001
A2C11 .001
A2CR1 1N38A
A2CR2 1N38A
A2CR3 1N38A
A2CR4 1N38A
A2R1 20K
A2R2 20K
A2R3 13Ω 2W
A2R4 22Ω 2W
A2R5 13Ω 2W
A2R6 13Ω 2W
A2R7 13Ω 2W
A2T1
A2T2
PART OF A2
A2C7 5pf
A2C8 5pf
A1C2 200pf
A1C3 200pf
A1C4 200pf
A1C5 200pf OPTIONAL
A1C6 5-500pf
A1C1 5-950pf
A1L1
RF IN J2
RF OUT J3
P7
DC OUTPUT
BLUE
WHITE
+15V
RED
GND.
BROWN
GREEN
-15V
BLACK
DC METER
P3 J3
A2L3
A2L2
+15 VDC
-15 VDC
A2C13 1.5µf 25V
A2C12 1.5µf 25V
A2R8 10K
A2U1
LM 741C
A2C15 .1
A2C14 .1
A2R9 392K 1%
A2C17 .01
A2C16 .01
A2R10 392K 1%
A2R11 4.99K 1%
A2C18 680pf
A2L1 27µh
A1C8 1000pf
A1R1 1 MEG 3W
A1L2 44µh
A1C7 1000pf 5KV
PHASE
J5
P5
PHASE/TUNE
ORANGE
A5R1 1K 10 TURN
A5M1
RED/BLK.
WHITE/BLK.
P2 J2
A2F1 .75A
J4
P4
A4R1 1K 1 TURN
A4M1
MAGNITUDE/LOAD
SHIELD
MAG
E | REVISED PER ECN 795 | 4-4-91
D | DELETED SHIELD - P3-3 / ECN M4850 | 3-21-88
C | WAS AMN-502 / ECN M3170 | 11-11-86
B | RELEASED PER EPR 6037 | 10/31/85
A | PRELIMINARY | 9/18/85
F | REVISED PER ECN 834 | 8/26/91
REV ZONE DESCRIPTION DATE APPROVED
REVISIONS
B23,407-000
AM-5
NEXT ASSY. USED ON
FIRST APPLICATION
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DRAWN BSR DATE 09/16/85
CHECKED DATE 9/18/85
ENG. APPVL. DATE 9/18/85
REL. TO PROD. DATE 11-1-85
USED ON AM-5
RF PLASMA PRODUCTS INC.
22 OLNEY AVENUE CHERRY HILL, NEW JERSEY 08003 (609)424-7500
TITLE SCHEMATIC DIAGRAM MATCHING NETWORK AM-5
DR. NO. 30,187
SHEET 1 OF 1
SCALE N/A
SIZE C

PIN 1
MARK ASSEMBLY REVISION BEFORE INSTALLING C10
GND WIRE FROM BACK PANEL C38,131
J4
J3
J2
J1
TB1
C38,130
ASSY
REV
BOTTOM OF P.C.BD.
Q1 THRU Q4
14 S
15 W
12 S
13 W
SUPERCEDES 2303750501
G
REVISED & REDRAWN ECN 3000
REV.
ZONE
DESCRIPTION
DATE
APPROVED
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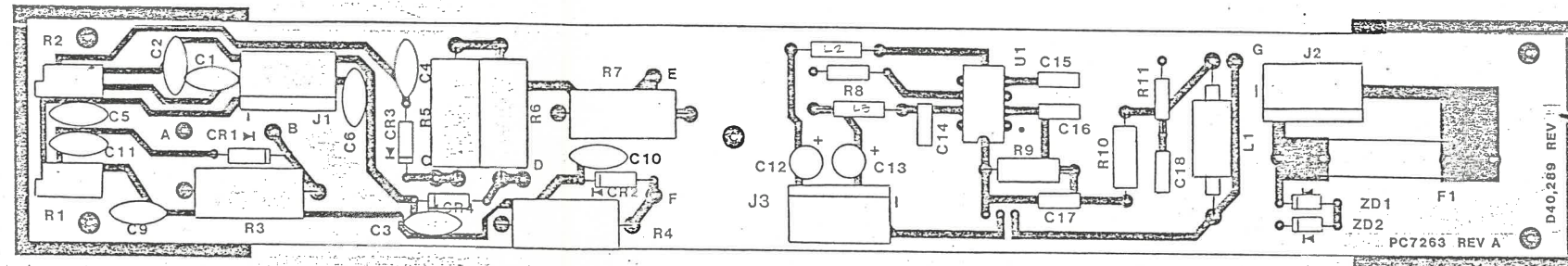
C38,131
NEXT ASSY
USED ON
FIRST APPLICATION
DRAWN E D RAINIER 11-2-83
ENG APPVL RAH 12-5-83
REL TO PROD
REF. TO EPL
Plasma-Therm, Inc.
TITLE P.C. ASSEMBLY POWER SUPPLY MATCHING NETWORK CONTROL
DWG. NO. 38,130
SHT 1 OF 1
SCALE 2:1
SIZE C
PT-C2

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	RELEASED PER EFR 0037	10/31/85	[illegible]
B	USED ON WAS AMN-502 / ECN M3170	11/11/86	[illegible]

PRODUCTION TO MARK ASSEMBLY REVISION LETTER WITH PERMANENT BLACK INK

REF: EPL - 323 407-002

USED ON: AM-5

4TH GENERATION · 4 PHEASANT RUN • NEWTOWN, PA 1894[illegible]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE FRACTIONS DECIMALS .XX .XXX ANGLES	CONTRACT NO 85369	CUSTOMER: RF PLASMA
MATERIAL	APPROVALS / DATE — DRAWN BAVLZ 5 24 85	BOARD TITLE: AM-5 MATCHING NETWORK PCB ASSEMBLY DRAWING
FINISH	CHECKED B. Ems 5/24/85; ISSUED	SIZE D · FSCM NO. 62116 · DWG. NO. D40,289 · REV A
DO NOT SCALE DRAWING		SCALE 2:1 · SHEET 1/1

REVISIONS
REV | ZONE | DESCRIPTION | DATE | APPROVED
A RELEASED PER EPR 0037
B ADDED TABULATION "A" CHANGED DETAIL B
C WAS AMN-502 / ECN M3170
SEE DETAIL A
INSTALL WITH 38
2 PLACES
2 PLACES
SEE TABULATION "A"
COOLING WATER
OUT
IN
J3 RF OUTPUT
AM-5
PHASE ZERO
MAG ZERO
AMPS 2A
P6
J2 RF INPUT
SEE DETAIL C
12 PLACES
SEE DETAIL B
INSTALL WITH 45 2 PLACES
3 PLACES
5 PLACES
PART | ASSEMBLY USAGE
001 | HN CONNECTOR
002 | C CONNECTOR
TABULATION "A"
LOOSEN THESE ITEMS TO ALLOW INSERTION OF ITEM 33. RETIGHTEN ITEMS 35, 44 & 51. (4 PLACES)
4 PLACES
MAG/LOAD
PHASE/TUNE
J4 -MAG
J5-PHASE
P7- DC METER
P1 J1
P3 J3
P2 J2
2 PLACES
4 PLACES
UNLESS OTHERWISE SPECIFIED THE SURF. FIN. OF MACHINED PARTS SHALL NOT EXCEED A MAX READING OF 125/PER AMERICAN STD • B46.1 • 1962
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING
TOLERANCES ON:
BASIC DIMENSIONS | 2 PLACE DECIMALS | 3 PLACE DECIMALS
UP TO 6 | ±.02 | ±.005
ABOVE 6 TO 24 | ±.03 | ±.010
ABOVE 24 | ±.05 | ±.015
ANGULAR DIMENSIONS ± 1/2°
MFG. SPEC. NO.
DRAWN 4TH GEN B.A.V.L. III 5-28-85
CHECKED
ENG. APPVL
REL TO PROD
RF Plasma Products, Inc.
22 OLNEY AVENUE CHERRY HILL, NEW JERSEY 08003 609/424-7500
TITLE TOP ASSEMBLY AM-5
SIZE D NO. D44478
SCALE | WEIGHT | SHEET 1 OF 2
B23407-000 | AM-5
NEXT ASSY | USED ON
FIRST APPLICATION
DASH NO. | MATERIAL | FINISH | SPEC.
LIST OF SPECIFICATIONS
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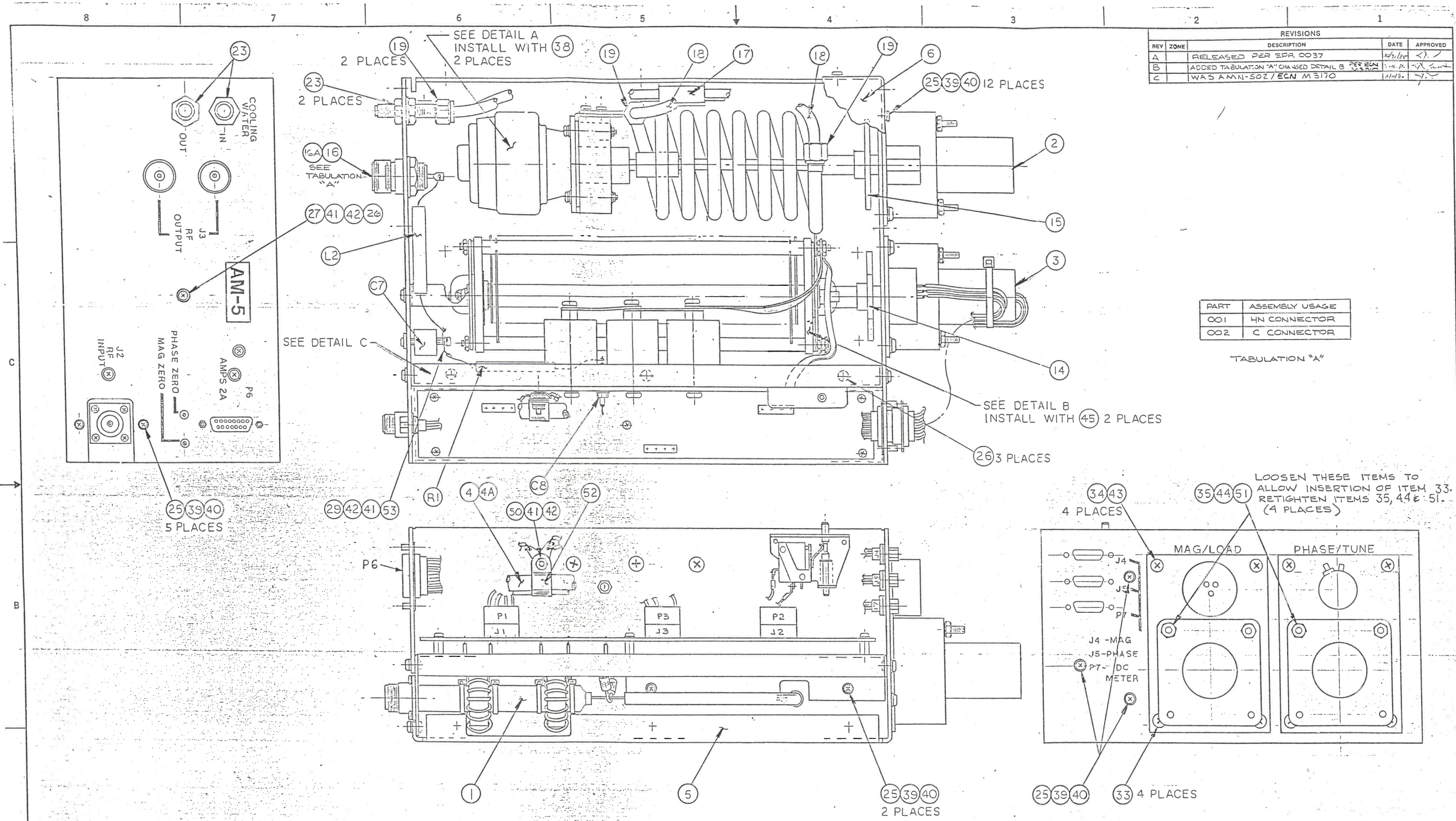
D ±.50
12.00 FT.
AM CONTROLLER
P1
OUT
AMN PS2A
ALPHA 5582
ALPHA 5582
MATCHING NETWORK
AM-5,10,20
P6
6
9
10
7
P1
8
11
12
P7
P1 P6
1 BLACK 1
2 BROWN 2
3 RED 3
4 ORANGE 4
5 YELLOW 5
6 WHITE 6
7 BLUE 7
8 VIOLET 8
9 GRAY 9
10 GREEN 10
11 WHITE / BLACK 11
12 WHITE / BROWN 12
13 SHIELD DRAIN WIRE
P7 P6
1 RED 14
3 RED 15
TWISTED WIRE
INTERLOCK
OVERALL LENGTH EXTENDING FROM P6 6 IN.
SUPERCEDES DWG # 2203849501
E
ADDED LABELS ECN 6960
4-23-90
REV.
ZONE
DESCRIPTION
DATE
APPROVED
200785650X
AM 10/20
NEXT ASSY
USED ON
FIRST APPLICATION
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DRAWN
DATE
R. MEROLA
10-31-85
ENG APPVL
DATE
11-1-85
REL TO PROD
DATE
11-1-85
REF. TO EPL
B23,407-008
Plasma-Therm, Inc.
TITLE
ASSEMBLY, INTERCONNECT CABLE, AM CONTROLLER-AM-5/10/20
DWG. NO.
28,138
SHT 1 OF 1
SCALE
SIZE
B